CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Mobile Fleet
Machine Id
6410 6410
Component
Hydraulic System
Fluid
MOBIL MOBILFLUID 424 (23 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

The iron level is abnormal. All other component wear rates are normal.

CONTAMINATION

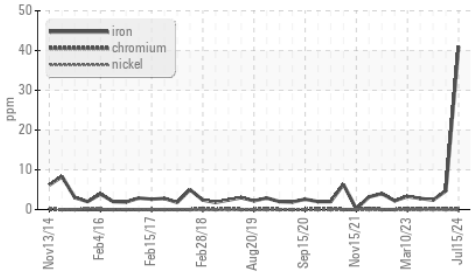
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

FLUID CONDITION

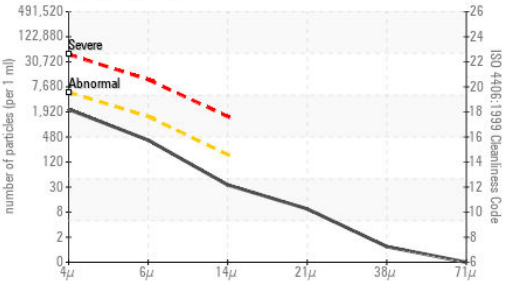
The AN level is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0956013	WC0918596	WC0867182
Sample Date		Client Info		15 Jul 2024	19 Mar 2024	23 Oct 2023
Machine Age	hrs	Client Info		20506	19829	19247
Oil Age	hrs	Client Info		677	1036	454
Filter Age	hrs	Client Info		677	1036	454
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>20	▲ 41	5	2
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	<1	2
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>75	67	28	14
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	12	13	12
Potassium	ppm	ASTM D5185m	>20	0	0	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	1930	430	4491
Particles >6µm		ASTM D7647	>1300	355	76	971
Particles >14µm		ASTM D7647	>160	30	6	37
Particles >21µm		ASTM D7647	>40	8	1	7
Particles >38µm		ASTM D7647	>10	1	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12	16/13/10	19/17/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		2	2	0
Boron	ppm	ASTM D5185m		111	118	125
Barium	ppm	ASTM D5185m		0	0	3
Molybdenum	ppm	ASTM D5185m		24	15	14
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		59	60	58
Calcium	ppm	ASTM D5185m		3300	3420	3362
Phosphorus	ppm	ASTM D5185m		1102	1127	1159
Zinc	ppm	ASTM D5185m		1371	1387	1374
Sulfur	ppm	ASTM D5185m		8548	8220	7359
Acid Number (AN)	mg KOH/g	ASTM D8045		1.29	0.96	0.98
Visc @ 40°C	cSt	ASTM D445	55	49.6	50.8	52.3

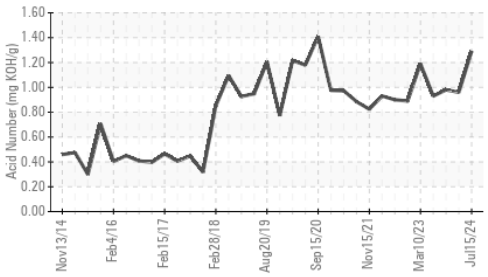
Ferrous Alloys



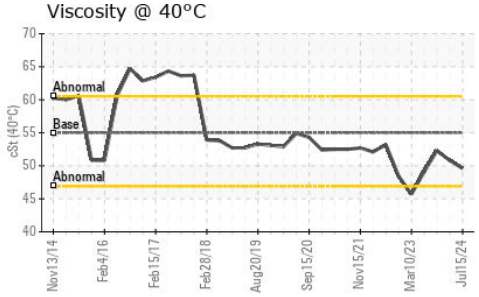
Particle Count



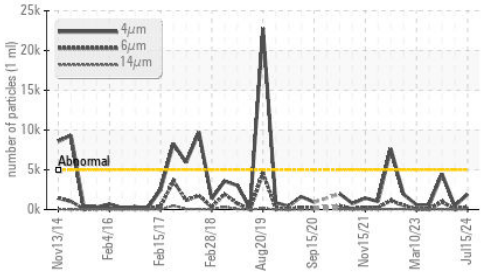
Acid Number



Viscosity @ 40°C



Particle Trend



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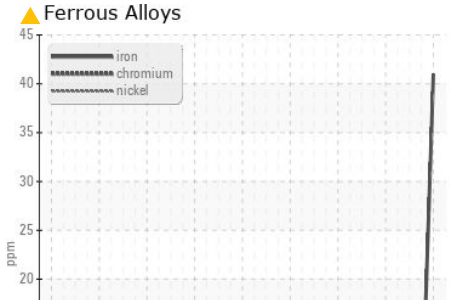
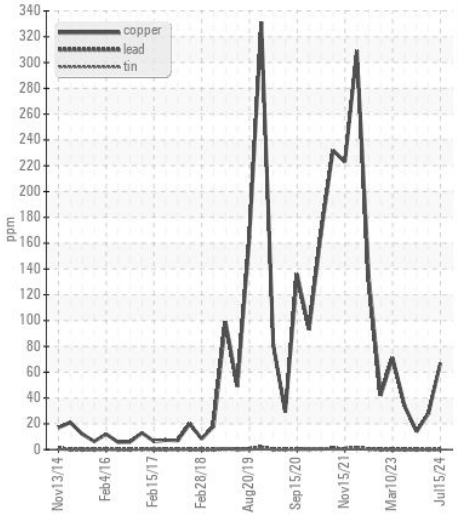


Non-ferrous Metals



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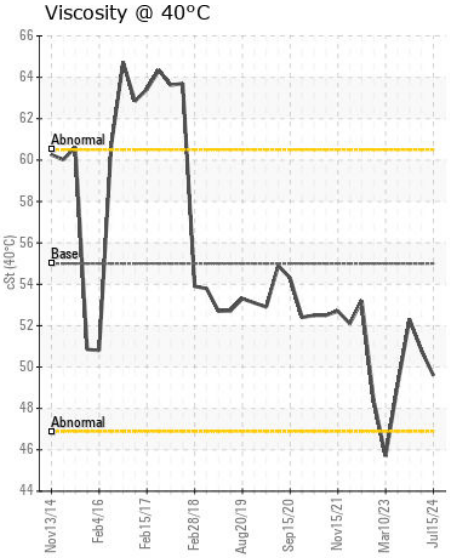
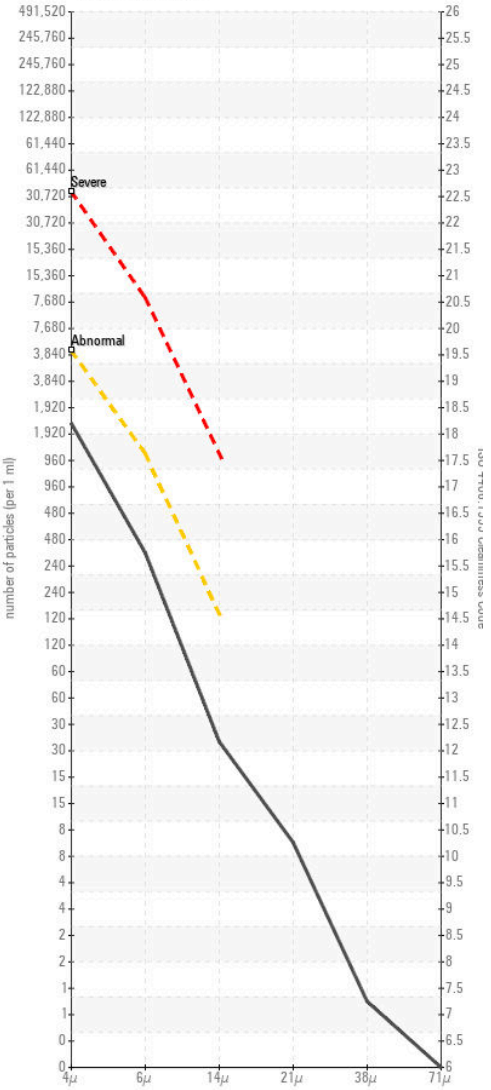
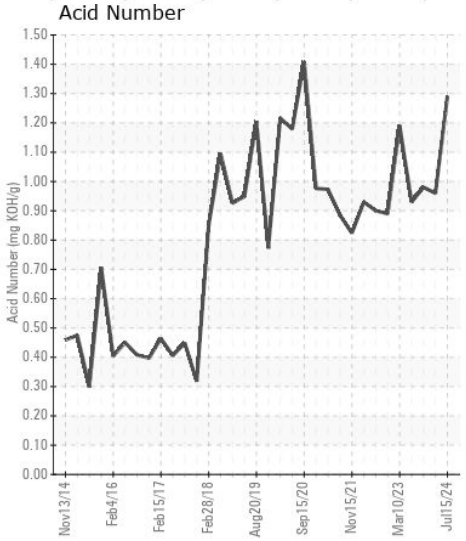


Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0956013
Lab Number : 06239026
Unique Number : 11127860
Test Package : CONST

Received : 17 Jul 2024
Tested : 18 Jul 2024
Diagnosed : 18 Jul 2024 - Don Baldridge

Certificate L2367

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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